

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): Mineral wool capable of dissolving in a physiological medium, characterized in that it comprises the constituents below in the following percentages by weight:

SiO <sub>2</sub>	39 - 44%, preferably 40 - 43%
Al <sub>2</sub> O <sub>3</sub>	16 - 27%, preferably 16 - 26%
CaO	6 - 20%, preferably 8 - 18%
MgO	1 - 5%, preferably 1 - 4.9%
Na <sub>2</sub> O	0 - 15%, preferably 2 - 12%
K <sub>2</sub> O	0 - 15%, preferably 2 - 12%
R <sub>2</sub> O (Na <sub>2</sub> O + K <sub>2</sub> O)	10 - 14.7%, preferably 10 - 13.5%
P <sub>2</sub> O <sub>5</sub>	0 - 3%, especially 0 - 2 %
Fe <sub>2</sub> O <sub>3</sub> (total iron)	1.5 - 15%, especially 3.2 - 8%
B <sub>2</sub> O <sub>3</sub>	0 - 2%, preferably 0 - 1 %
TiO <sub>2</sub>	0 - 2%, preferably 0.4 - 1%.

Claim 2 (Currently Amended): Mineral wool according to Claim 1, characterized in that the CaO content is between 9.5 and 20%, ~~preferably between 10 and 18%.~~

Claim 3 (Currently Amended): Mineral wool according to ~~either of the preceding~~ claims claim 1, characterized in that it contains 20 to 25% alumina.

Claim 4 (Currently Amended): Mineral wool according to ~~one of the preceding~~ claims claim 1, characterized in that it contains at least 2%, ~~especially around 2 to 5%~~, MgO

when alumina is present in an amount of less than 22%, ~~especially from 17 to 22%, and in that it contains 1 to 4%, preferably 1 to 2%, MgO when alumina is present in an amount of at least 22% by weight.~~

Claim 5 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that the alkali metal oxide content is ~~preferably~~ less than or equal to 13.0%, ~~especially around 10 to 12.5% and in particular 12% or less.~~

Claim 6 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that the  $R_2O/Al_2O_3$  molar ratio is less than 0.9, ~~especially at most 0.8 and in particular at most 0.75.~~

Claim 7 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that it contains 2 to 6% iron oxide.

Claim 8 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that it contains 1% or less of titanium oxide ~~or less.~~

Claim 9 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that it has a viscosity at a temperature of 1400°C of more than 70 poise, ~~especially around 75 to 250 poise.~~

Claim 10 (Currently Amended): Mineral wool according to ~~one of the preceding~~ ~~claims~~ claim 1, characterized in that its composition has a shrinkage at 700°C of less than 40% and a shrinkage at 800°C of less than 90%.

Claim 11 (Currently Amended): ~~Use of~~ The method of using a mineral wool according to ~~one of the preceding claims~~ claim 1 in fire-resistant structural systems or as insulation employed at high temperature.